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# SEQUENCE LISTING

<110> Podolsky, Daniel K.

<120> INTESTINAL TREFOIL PROTEINS

<130> 00786-432001

<140> US 09/313,434

<141> 1999-05-17

<150> US 08/631,469

<151> 1996-04-12

<150> US 08/191,352

<151> 1994-02-02

<150> US 08/037,741

<151> 1993-03-25

<150> US 07/837,192

<151> 1992-02-13

<150> US 07/655,965

<151> 1991-02-14

<160> 19

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 431

<212> DNA

<213> Rattus ITF

<220>

<221> CDS

<222> (18)...(260)

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		Met	Glu	Thr	Arg	Ala	Phe	Trp	Ile	Thr	Leu	Leu	
		1				5					10		

ctg	gtc	ctg	gtt	gct	ggg	tcc	tcc	tgc	aaa	gcc	cag	gaa	ttt	gtt	ggc	98
Leu	Val	Leu	Val	Ala	Gly	Ser	Ser	Cys	Lys	Ala	Gln	Glu	Phe	Val	Gly	
		15						20					25			

cta	tct	cca	agc	caa	tgt	atg	gcg	cca	aca	aat	gtc	agg	gtg	gac	tgt	146
Leu	Ser	Pro	Ser	Gln	Cys	Met	Ala	Pro	Thr	Asn	Val	Arg	Val	Asp	Cys	
		30					35					40				

aac	tac	ccc	act	gtc	aca	tca	gag	cag	tgt	aac	aac	cgt	ggc	tgc	tgt	194
Asn	Tyr	Pro	Thr	Val	Thr	Ser	Glu	Gln	Cys	Asn	Asn	Arg	Gly	Cys	Cys	
	45					50					55					

ttt	gac	tcc	agc	atc	cca	aat	gtg	ccc	tgg	tgc	ttc	aaa	cct	ctg	caa	242
Phe	Asp	Ser	Ser	Ile	Pro	Asn	Val	Pro	Trp	Cys	Phe	Lys	Pro	Leu	Gln	
60					65					70					75	

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TECH CENTER 1600/2900

gag aca gaa tgt aca ttt tgaagctgtc caggctccag gaagggagct 290  
Glu Thr Glu Cys Thr Phe  
80

ccacaccctg gactcttgct gatggtagtg gcccagggta acactcaccc ctgatctgct 350  
ccctcgcgcc ggccaatata ggagctggga gtccagaaga ataaagacct tacagtcagc 410  
acaaggctgt tctaattgcg g 431

<210> 2  
<211> 81  
<212> PRT  
<213> Rattus ITF

<400> 2  
Met Glu Thr Arg Ala Phe Trp Ile Thr Leu Leu Leu Val Leu Val Ala  
1 5 10 15  
Gly Ser Ser Cys Lys Ala Gln Glu Phe Val Gly Leu Ser Pro Ser Gln  
20 25 30  
Cys Met Ala Pro Thr Asn Val Arg Val Asp Cys Asn Tyr Pro Thr Val  
35 40 45  
Thr Ser Glu Gln Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Ser Ile  
50 55 60  
Pro Asn Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Thr Glu Cys Thr  
65 70 75 80  
Phe

<210> 3  
<211> 403  
<212> DNA  
<213> Homo sapiens ITF

<220>  
<221> CDS  
<222> (2)...(223)

<400> 3  
g atg ctg ggg ctg gtc ctg gcc ttg ctg tcc tcc agc tct gct gag gag 49  
Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu  
1 5 10 15

tac gtg ggc ctg tct gca aac cag tgt gcc gtg ccg gcc aag gac agg 97  
Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg  
20 25 30

gtg gac tgc ggc tac ccc cat gtc acc ccc aag gag tgc aac aac cgg 145  
Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg  
35 40 45

ggc tgc tgc ttt gac tcc agg atc cct gga gtg cct tgg tgt ttc aag 193  
Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys  
50 55 60

ccc ctg act agg aag aca gaa tgc acc ttc tgaggcacct ccagctgccc 243  
Pro Leu Thr Arg Lys Thr Glu Cys Thr Phe  
65 70

ctgggatgca ggctgagcac ccttgcccgg ctgtgattgc tgccaggcac tgttcacctc 303  
agtttttctg tccctttgct cccggcaagc tttctgctga aagttcatat ctggagcctg 363  
atgtcttaac gaataaaggt cccatgctcc acccgaaaaa 403

<210> 4  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens ITF

<400> 4  
 Met Leu Gly Leu Val Leu Ala Leu Leu Ser Ser Ser Ser Ala Glu Glu  
   1                          5                          10                          15  
 Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg  
                   20                          25                          30  
 Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg  
           35                          40                          45  
 Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp Cys Phe Lys  
       50                          55                          60  
 Pro Leu Thr Arg Lys Thr Glu Cys Thr Phe  
   65                          70

<210> 5  
 <211> 10  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 5  
 gggcggccgc

10

<210> 6  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 6  
 gtacattctg tctcttgacg a

21

<210> 7  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 7  
 taaccctgct gctgctggtc ctgg

24

<210> 8  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 8  
 gtttgctgctg tgccatggag a

21

<210> 9  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 9  
 ccgcaattag aacagccttg t

21

<210> 10  
 <211> 60  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 10  
 Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln Asn  
   1                  5                  10                  15  
 Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly Cys  
                   20                  25                  30  
 Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro Asn  
                   35                  40                  45  
 Thr Ile Asp Val Pro Pro Glu Glu Cys Glu Phe  
   50                  55                  60

<210> 11  
 <211> 62  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated peptide

<400> 11  
 Glu Lys Pro Ala Ala Cys Arg Cys Ser Arg Gln Asp Pro Lys Asn Arg  
   1                  5                  10                  15  
 Val Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Thr Ser  
                   20                  25                  30  
 Gly Cys Cys Phe Asp Ser Gln Val Pro Gly Val Pro Trp Cys Phe Lys  
                   35                  40                  45  
 Pro Leu Pro Ala Gln Glu Ser Glu Glu Cys Val Met Glu Val  
   50                  55                  60

<210> 12  
 <211> 6  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Synthetically generated primer

<400> 12  
 attgcc

6

<210> 13  
 <211> 6  
 <212> DNA  
 <213> Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated primer

&lt;400&gt; 13

tatggc

6

&lt;210&gt; 14

&lt;211&gt; 540

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (41)...(292)

&lt;400&gt; 14

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				1				5		

aac	aag	gtg	atc	tgc	gcc	ctg	gtc	ctg	gtg	tcc	atg	ctg	gcc	ctc	ggc		103
Asn	Lys	Val	Ile	Cys	Ala	Leu	Val	Leu	Val	Ser	Met	Leu	Ala	Leu	Gly		
				10					15					20			

acc	ctg	gcc	gag	gcc	cag	aca	gag	acg	tgt	aca	gtg	gcc	ccc	cgt	gaa		151
Thr	Leu	Ala	Glu	Ala	Gln	Thr	Glu	Thr	Cys	Thr	Val	Ala	Pro	Arg	Glu		
			25					30					35				

aga	cag	aat	tgt	ggt	ttt	cct	ggt	gtc	acg	ccc	tcc	cag	tgt	gca	aat		199
Arg	Gln	Asn	Cys	Gly	Phe	Pro	Gly	Val	Thr	Pro	Ser	Gln	Cys	Ala	Asn		
		40					45					50					

aag	ggc	tgc	tgt	ttc	gac	gac	acc	gtt	cgt	ggg	gtc	ccc	tgg	tgc	ttc		247
Lys	Gly	Cys	Cys	Phe	Asp	Asp	Thr	Val	Arg	Gly	Val	Pro	Trp	Cys	Phe		
	55					60					65						

tat	cct	aat	acc	atc	gac	gtc	cct	cca	gaa	gag	gag	tgt	gaa	ttt			292
Tyr	Pro	Asn	Thr	Ile	Asp	Val	Pro	Pro	Glu	Glu	Glu	Cys	Glu	Phe			
	70				75				80								

tagacacttc	tgcagggatc	tgcctgcatc	ctgacggggt	gccgtcccca	gcacggtgat		352
tagtcccaga	gctcggctgc	cacctccacc	ggacacctca	gacacgcttc	tgcagctgtg		412
cctcggctca	caacacagat	tgactgctct	gactttgact	actcaaaatt	ggcctaataa		472
ttaaaagaga	tcgatattaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		532
aaaaaaaaa							540

&lt;210&gt; 15

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetically generated peptide

&lt;400&gt; 15

Glu	Lys	Pro	Ala	Ala	Cys	Arg	Cys	Ser	Arg	Gln	Asp	Pro	Lys	Asn	Arg	
1				5				10						15		
Val	Asn	Cys	Gly	Phe	Pro	Gly	Ile	Thr	Ser	Asp	Gln	Cys	Phe	Thr	Ser	
			20				25					30				
Gly	Cys	Cys	Phe	Asp	Ser	Gln	Val	Pro	Gly	Val	Pro	Trp	Cys	Phe	Lys	
	35					40					45					

Pro Leu Pro Ala Gln Glu Ser Glu Glu Cys Val Met Gln Val Ser Ala  
 50 55 60  
 Arg Lys Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Asp Cys Ala Ala  
 65 70 75 80  
 Arg Asn Cys Cys Phe Ser Asp Thr Ile Pro Glu Val Pro Trp Cys Phe  
 85 90 95  
 Phe Pro Met Ser Val Glu Asp Cys His Tyr  
 100 105

<210> 16  
 <211> 57  
 <212> PRT  
 <213> Rattus ITF

<400> 16  
 Gln Glu Phe Val Gly Leu Ser Pro Ser Gln Cys Met Ala Pro Thr Asn  
 1 5 10 15  
 Val Arg Val Asp Cys Asn Tyr Pro Thr Val Thr Ser Glu Gln Cys Asn  
 20 25 30  
 Asn Arg Gly Cys Cys Phe Asp Ser Ser Ile Pro Asn Tyr Pro Trp Cys  
 35 40 45  
 Phe Lys Pro Leu Gln Glu Cys Thr Phe  
 50 55

<210> 17  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 17  
 Met Ala Thr Met Glu Asn Lys Val Ile Cys Ala Leu Val Leu Val Ser  
 1 5 10 15  
 Met Leu Ala Leu Gly Thr Leu Ala Glu Ala Gln Thr Glu Thr Cys Thr  
 20 25 30  
 Val Ala Pro Arg Glu Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro  
 35 40 45  
 Ser Gln Cys Ala Asn Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly  
 50 55 60  
 Val Pro Trp Cys Phe Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu  
 65 70 75 80  
 Glu Cys Glu Phe

<210> 18  
 <211> 105  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1)...(318)

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 gag aaa ccc tcc ccc tgc cag tgc tcc agg ctg agc ccc cat aac agg 48  
 Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg  
 1 5 10 15  
 acg aac tgc ggc ttc cct gga atc acc agt gac cag tgt ttt gac aat 96  
 Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn  
 20 25 30

gga tgc tgt ttc gac tcc agt gtc act ggg gtc ccc tgg tgt ttc cac	144
Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His	
35 40 45	
ccc ctc cca aag caa gag tcg gat cag tgc gtc atg gag gtc tca gac	192
Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp	
50 55 60	
aga aga aac tgt ggc tac ccg ggc atc agc ccc gag gaa tgc gcc tct	240
Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser	
65 70 75 80	
cgg aag tgc tgc ttc tcc aac ttc atc ttt gaa gtg ccc tgg tgc ttc	288
Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe	
85 90 95	
ttc ccg aac tct gtg gaa gac tgc cat tac	318
Phe Pro Asn Ser Val Glu Asp Cys His Tyr	
100 105	

<210> 19  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 19

Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser Pro His Asn Arg	
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Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln Cys Phe Asp Asn	
20 25 30	
Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro Trp Cys Phe His	
35 40 45	
Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met Glu Val Ser Asp	
50 55 60	
Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu Glu Cys Ala Ser	
65 70 75 80	
Arg Lys Cys Cys Phe Ser Asn Phe Ile Phe Glu Val Pro Trp Cys Phe	
85 90 95	
Phe Pro Asn Ser Val Glu Asp Cys His Tyr	
100 105	